Expedition 374 Ross Sea:

Site: *Hole:* *Core:* *Sections:* *Top Depth:*

Major Lithology: Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology C St Sd G	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
	0									
	20								For color.	
	40								1. 5Y 5/2	
	60									
	80								2. Gley1 6/5GY	
	100								3. Gley1 6/10Y	
	120									
	140								4. Gley1 6/10GY	
	0									
	20								5. Gley1 7/5GY	
	40								6. 5Y 6/2	
	60									
	80									
	100									
	120									
	140									
	0									
	20									
	40									
	60									
	80									
	100									
	120									
	140									

Expedition 374 Ross Sea: U1524 C 4R 1+CC

Site: Hole: Core: Sections: Top Depth:

Major Lithology: ..... Minor Lithology: .....

Section	Offset (cm)	Drilling disturb.	Lithology (C St Sd G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: S. Kim Date: 10/2
1	0–140			Gley1 5/1bg				D-O (10) 49 50 D-O 96	Massive to mottled/bioturbated greenish gray diatom ooze with lense/burrow of greenish gray diatom ooze (light); Gley1 7/10gy mottled greenish gray lense/burrow/burrow at 31–33, 83–88; LSio-7 [illegible] (ign) 94–95; pyrite streaks/mottling throughout; top of 1 mottled greenish gray lense coarse and layer very thin (fine); uncoarsening black clast (clast?) greenish gray	
CC	0–140							PDL	lense coarse and layer very thin (fine); SEC 1 at 13 cm laminated to massive mottled/bioturbated but not sure due to poor recovery and drilling disturbance.	
	0–140									

Expedition 374 Ross Sea: U1524 C 5R CC + 6R CC

Site: Hole: Core: Sections: Top Depth:

Major Lithology: ..... Minor Lithology: .....

Section	Offset (cm)	Drilling disturb.	Lithology (C St Sd G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: S. Kim Date: 10/2
5R CC	0									
	20									
	40									
	60								washed gravell.	
	80									
	100									
	120								5R CC and 6R CC	
	140								some Rock!	
6R CC	0									
	20									
	40									
	60									
	80									
	100									
	120									
	140									
	0									
	20									
	40									
	60									
	80									
	100									
	120									
	140									

Expedition 374 Ross Sea: U1524 C 7R 1+CC

Site: Hole: Core: Sections: Top Depth:

Major Lithology: ..... Minor Lithology: .....

Section	Offset (cm)	Drilling disturb.	Lithology (C, St, Sd, G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: S.Kim Date: 10/2
1	0–140								Muddy to laminated/bioturbated greenish gray diatom ooze interbedded with cm-scale light greenish gray diatom ooze with narrow pyrite streaks at 26, 74	
									at 50cm long lonestone below 72	
CC	0–140								light greenish layer in situ or disturbed? not sure due to drilling disturbance	
	0–140									

Expedition 374 Ross Sea: 1524 C 8R 1+CC

Site: Hole: Core: Sections: Top Depth:

Major Lithology: ..... Minor Lithology: .....

Section	Offset (cm)	Drilling disturb.	Lithology (C St Sd G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: S. Krom Date: 10/2
1	0–140			6Gy1 6/10 Gy				DRM	~~0–10~~ mottled Massive to bioturbated greenish gray sand ~~to~~ clast poor (rect) muddy diamict (CC). 0–20 washed gravelly volcan's	
CC	0–140							PAL		
	0–140									

Expedition 374 Ross Sea: U1524 (Site) C (Hole) 9R (Core) 1, 2, CC (Sections) 710 R CC (Top Depth)

Major Lithology: ..... Minor Lithology: .....

Section	Offset (cm)	Drilling disturb.	Lithology (C St Sd G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: SKM 10/2
1	0–140								Massive to laminated greenish gray mud (4) with sharp contact interbedded dark to moderate olive greenish gray chert-poor muddy diamicton with burrows and lonestones. (2+3)	
								(70)	DRM	
									0–17 – washed gravel.	
									LS: 39 (chert), 46–49, 112 114, 121–124, 127	
									lense, 112–114 and pyrite laminae	
2	0–140							(50)	DRM	
									pyrite	
CC	0–140							(6)	DRM	
									PAL	
10R-CC									0–6 washed gravel	
									PAL	

Expedition 374 Ross Sea: U1524 (Site:) C (Hole:) 12R (Core:) 1-3 (Sections:) 0 (Top Depth:)

Major Lithology: laminated mud Minor Lithology: Sandy mud

Section:

(5) bley 1 4/56 (6) bley 1 3/104

Section	Offset (cm)	Drilling disturb.	Lithology (C St Sd G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: MOP / Date: 2-10-18
1	0–140	8		N/B Tbrown; 28; 6; 69; 5; 81; 6	C		3	SS	0-28: Carbonate cement 28-69: Faintly laminated mud 69-84: Sandy mud with dispersed clasts bioturbated at base condrites. 84-142: Same as 28-69 Lonestones: 130, 133 0-5: Fall in SS = Diatom Rich	142
2	0–140	8		6; 38; 5; 90; 6			3	SS; SS	0-38: Same as above in section 1 38-90: Sandy mud with dispersed clasts bioturbated at base condrites. 33-34: Alignment of clasts 100-103: coarse sand & gravel beds Lonestone: 28-31 SS = Diatom Rich	119
3	0–80	8	PAL	6; 10; 5; 27; 6			3		Section 3: 74-78 Pal CC: 78-90 ⇒ gravel 9-25: Sandy mud with dispersed clasts bioturbated at the base Lonestones: 13,	78
CC	80–140		0000							

Expedition 374 Ross Sea: U1524 (Site:) C (Hole:) 13-15 (Core:) CC's (Sections:) 0 (Top Depth:)

Major Lithology: cobble & gravel Minor Lithology:

Section:

Section	Offset (cm)	Drilling disturb.	Lithology (C St Sd G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
13R, CC, A	0–140		0–11 PAL						pal = 6-6.5 cobble & gravel	
14R, CC, A	0–140		0–11						cobble & gravel 0-11 No PAL	
15R, CC, A	0–140		0–11						cobble & gravel 0-11 No Pal	

Expedition 374 Ross Sea: U1524 (Site) C (Hole) 16R (Core) 1-3 (Sections) (Top Depth)

Major Lithology: Laminated Mud Minor Lithology: Sandy mud with dispersed clasts.

Section:

Section	Offset (cm)	Drilling disturb.	Lithology (C St Sd G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: IS Date: Feb 11
1	0–140	10; 101; 1W		4; 49; 3; 101			3; 3		4: Gley 1 4/10 Y (dark greenish gray) 3: Gley 1 6/10GY (greenish gray) Interbedded laminated mud (color 4) and heavily bioturbated sandy mud (color 3) with dispersed clasts Carbonate cemented: 38 - 46 Limestone 1, 6, 26, 37, 62, Grayish green laminae: 81 Microfault: 72	
2	0–140	137; 1W		3; 35; 4; 42; 3; 61; 4; 68; 3; 78; 4; 90; 3; 108; 4; 122; 3; 4; 128; 137			3		Limestones: 14, 5, Grayish green laminae: 25, 55, 93 From section 2-70 to CC, greenish gray beds are less sandy than in section 1 and 2 foram: @ 122cm (52)	
3	0–140	99		4; 39; 3; 52; 4; 99			3		Grayish green laminae: 49	

Expedition 374 Ross Sea: U1524 (Site:) C (Hole:) 16R (Core:) 4-CC (Sections:) (Top Depth:)

Major Lithology: Laminated mud Minor Lithology: Mud w/ dispersed clasts

Section:

Section	Offset (cm)	Drilling disturb.	Lithology (C St Sd G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: 15 Date: Feb 11
4	0–140	57		4 (26); 3 (33); 4 (57)			3 (26); 3		Interbedded laminated mud and heavily bioturbated (sandy) mud with dispersed clasts	
CC	0–140	13; PAL 19		4 (13)			2 (13)		Laminated mud (colors)	
	0–140									

Expedition 374 Ross Sea: U1524 C 17 CC

Site: Hole: Core: Sections: Top Depth:

Major Lithology: Washed gravels Minor Lithology:

Section:

Section	Offset (cm)	Drilling disturb.	Lithology C St Sd G	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: IS Date:
	0	1 2 9							washed gravel	
	20									
	40									
	60									
	80									
	100									
	120									
	140									
	0									
	20									
	40									
	60									
	80									
	100									
	120									
	140									
	0									
	20									
	40									
	60									
	80									
	100									
	120									
	140									

Expedition 374 Ross Sea: U1524 (Site:) C (Hole:) 18 (Core:) CC (Sections:) (Top Depth:)

Major Lithology: Washed gravel Minor Lithology:

Section:

Section	Offset (cm)	Drilling disturb.	Lithology (C St Sd G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: IS	Date: Feb 11
	0	2/5							Washed gravels		
	20										
	40										
	60										
	80										
	100										
	120										
	140										
	0										
	20										
	40										
	60										
	80										
	100										
	120										
	140										
	0										
	20										
	40										
	60										
	80										
	100										
	120										
	140										

Expedition 374 Ross Sea: 1524 (Site) C (Hole) 20R (Core) 1-3 (Sections) Ø (Top Depth)

Major Lithology: Mud

Minor Lithology:

Section: 1-3

1 4/5 GY
2 6/5 G
3 5/5 G } Gley 1

Section	Offset (cm)	Drilling disturb.	Lithology (C St Sd G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: BAK	Date: 2/11/18
1	0–151			4/5GY; 5/5G; 6/5G; 2.5/5G; 4/5GY	V; V	Py	1; 3; 1	SS	massive mud 0–69 Gley 1 4/5GY 69–78 sharp (sharp) to bioturbated contact (gradational) 5/5G 78–94 GLEY 1 6/5G, (grad.) 94–96 v dark greenish grey (GLEY 2.5/5G) 96–151 GLEY 1 4/5GY zoophycus 88–95 cm lime stone at 76–78 108–115 pyrite staining 142–143 burrow? major lith. smear slide diatom rich mud		
2	0–151			4/5 GY; 5/5G; 4/5GY; 5/5G	V		1; 3; 1; 3	SS	0–49 4/5GY massive mud 49–58 5/5G 58–135 4/5GY 135–151 5/5G sharp contact 50–58 bioturbated 56–58 chondrites major lith. mud rich SS: diatom ooze		
3	0–99		33; 99	1; 2; 3; 1; 2; 1; 2	V	Py; Py	1	TS	3-4 pyrite staining sharp contact @ 60. limestones @ 36, 38, 46, 50–53 chert 80–92 pyrite staining, burrows large limestone 90–97 took thin section. (lithified-unconformity?)		

Expedition 374 Ross Sea: 1524 (Site:) C (Hole:) 20R (Core:) 4-CC (Sections:) Ø (Top Depth:)

Major Lithology: mud w/ dispersed clasts faintly laminated mud Minor Lithology:

Section: 4-CC

1 4/5 GY
2 6/5 G } GLEY 1
3 5/5 G

Section	Offset (cm)	Drilling disturb.	Lithology (C St Sd G)	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: BAK Date: 2/11/18
4	0–140		55	2; 3; 2; 3; 2	v	Py	1; 3; 3	55	mud with diatom ooze major lith.; mud w/ dispersed clasts; 26–31 mottling? pyritized burrow; faint laminations defined by color 31–36; 36–55 pyritized burrows, staining; lonestones 20, 40; color 0–24, 2; 29–32, 3; 32–34, 2; 34–37, 3; 37–55, 2	
CC	0–140		18	2	0	Py	1		0–1 pyrite stain; mud w/ dispersed clasts; 10–11 lens, odor 3; 0–11 color 2; CORE SUMMARY	

Massive dark greenish gray mud interbedded on a dm-scale with massive to faintly laminated mottled/bioturbated light greenish gray and dark greenish gray to greenish black mud w/ dispersed clasts. Lonestones, pyrite staining, chondrites, and zoophycus are observed in some of the light greenish gray beds. A large lonestone of lithified mud is observed from 90–97cm in Section 4. Core is moderately to highly disturbed (bioturbating)